

REMARKS	WELL LOG	ELECTRIC LOGS	FILE <b>X</b>	WATER SANDS	LOCATION INSPECTED	SUB REPORT/abd
DATE FILED <b>1-30-85</b>						
LAND FEE & PATENTED		STATE LEASE NO		PUBLIC LEASE NO		INDIAN <b>14-20-603-258</b>
DRILLING APPROVED		<b>2-1-85 - OIL</b>				
SPUDDED IN:						
COMPLETED:		PUT TO PRODUCING:				
INITIAL PRODUCTION:						
GRAVITY A.P.I.						
GOR:						
PRODUCING ZONES						
TOTAL DEPTH:						
WELL ELEVATION:						
DATE ABANDONED: <b>HA. Application Rescinded 3-28-86</b>						
FIELD:		<b>GREATER ANETH</b>				
UNIT:		<b>WHITE MESA</b>				
COUNTY:		<b>SAN JUAN</b>				
WELL NO		<b>WHITE MESA UNIT #35-24</b>			<b>API #43-037-31138</b>	
LOCATION		<b>300' FSL</b>	FT FROM (N) (S) LINE	<b>1550' FWL</b>	FT FROM (E) (W) LINE	<b>SE SW 1/4 - 1/4 SEC 35</b>
TWP	RGE	SEC	OPERATOR		TWP	RGE
<b>41S</b>	<b>24E</b>	<b>35</b>	<b>SUPERIOR OIL COMPANY</b>			

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR

P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

300' FSL, 1550' FWL, SEC. 35 SESW

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

7.5 miles southeast of Montezuma Creek, Utah

16. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

300'

18. NO. OF ACRES IN LEASE

1142.82

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1069'

19. PROPOSED DEPTH  
5650'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ungraded Ground Level 4718.7'

22. APPROX. DATE WORK WILL START\*

May, 1985

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5# K-55	120'	177 ft <sup>3</sup> cmt to surface
12-1/4"	9-5/8"	36# K-55	1460'	913 ft <sup>3</sup> cmt to surface
8-3/4"	7"	23# K-55	5650'	590 ft <sup>3</sup> cmt or sufficient to cover zones of interest

Superior Oil proposed to drill a well to 5650' to test the Ismay and Desert Creek formations. If productive, we will run casing and complete. If dry, we will plug and abandon as per BLM, BIA and State of Utah regulations.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 2/1/85

BY: John R. Buse

RECEIVED

JAN 30 1985

DIVISION OF  
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James S. Andres

TITLE Petroleum Engineer

DATE 12-14-84

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

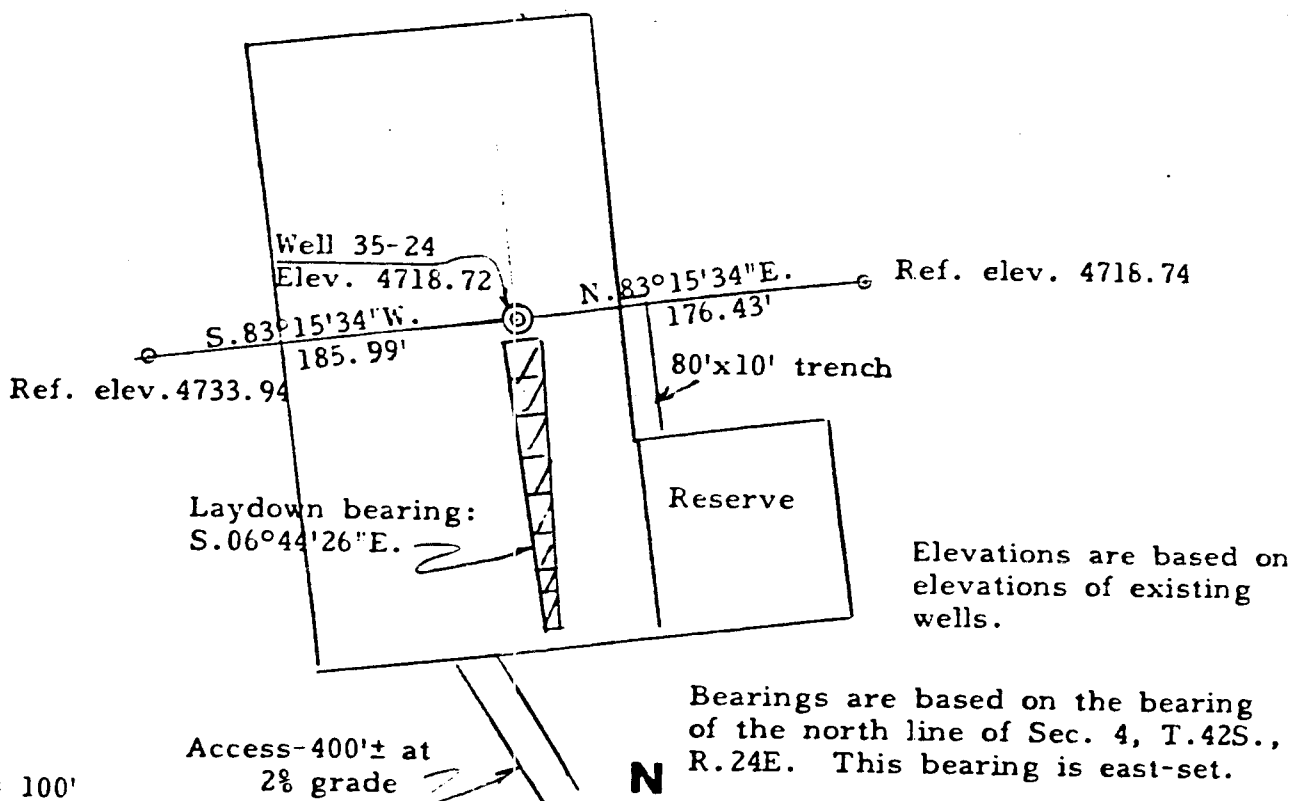
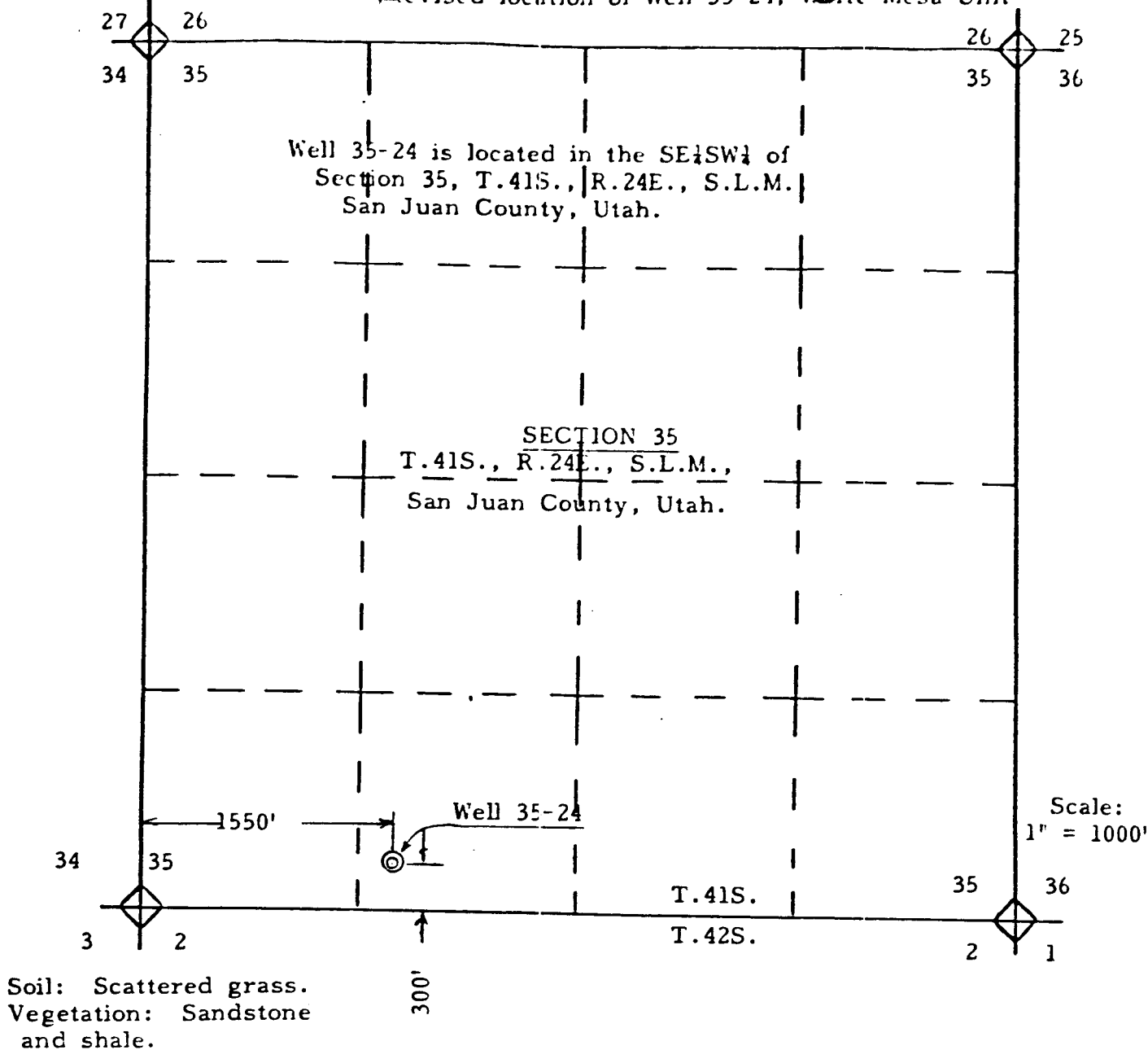
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

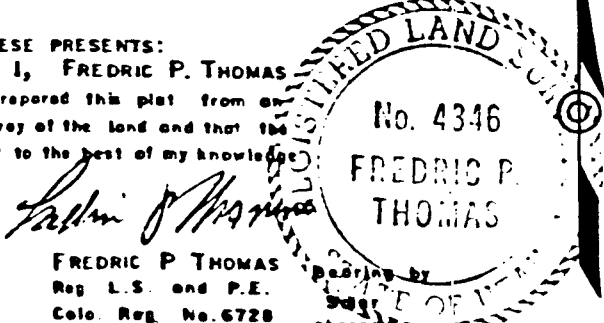
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



KNOW ALL MEN BY THESE PRESENTS:  
THAT I, FREDRIC P. THOMAS  
do hereby certify that I prepared this plat from an  
actual and accurate survey of the land and that the  
same is true and correct to the best of my knowledge  
and belief.

Plat No. 7

Utah Reg. No. 4346



THOMAS Engineering Inc.

215 N. Linden  
Cortez, Colorado  
565-4496

# SUPPLEMENT TO FORM 3160-3

WELL: White Mesa Unit #35-24

ELEVATION: Ungraded ground level 4718.7'

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS:	<u>Formation</u>	<u>Top</u>
	Chinle	1410'
	DeChelly	2480'
	Organ Rock	2732'
	Hermosa	4430'
	Ismay	5267'
	Lower Ismay	5383'
	Gothic Shale	5413'
	Desert Creek	5427'
	Chimney Rock Shale	5598'
	TD	5650'

WATER BEARING FORMATION: Fresh water is expected to be encountered intermittently from 120' to 1410'.

HYDROCARBON BEARING FORMATION: Oil & gas could be encountered in the Ismay and Desert Creek from 5267' to 5598'.

MUD PROGRAM:

Surface to 100' - spud mud.

100' to 1410' - fresh water.

1410' to 2400' - fresh water/gel/polymer.

2400' to 5200' - lignosulfonate mud system.

5200' to TD - lignosulfonate mud system. Water loss controlled to 15 cc or less and weighted with barite as necessary.

CASING PROGRAM:	<u>Depth</u>	<u>Hole Size</u>	<u>O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
Conductor	0-120'	17-1/2"	13-3/8"	54.5#	K-55	ST&C
Surface	0-1460'	12-1/4"	9-5/8"	36#	K-55	ST&C
Production	0-5650'	8-3/4"	7"	23#	K-55	ST&C

ALL CASING WILL BE NEW.

(2)

CEMENT PROGRAM:

Conductor - cement to surface w/ 150 sx (177 ft<sup>3</sup>)  
Class 'B' + 2% CaCl.

Surface - cement to surface w/ 400 sx (736 ft<sup>3</sup>)  
Lite + 10#/sk Gilsonite + .4% LoDense +  
5#/sk LCM & 150 sx (177 ft<sup>3</sup>) Class 'B'  
+2% CaCl.

Production - 500 sx (590 ft<sup>3</sup>) Class 'B' + 1.7%  
D-29 (antimigration additive) + .3%  
R-5 (retarder). Est TOC: 4300'.

PRESSURE CONTROLS:

Blowout preventer equipment will be 10" Series  
900 (3000 psig working pressure) with blind rams  
and drill pipe rams hydraulically and manually  
controlled. The BOP's will be tested to 1500 psig  
and actuated daily to insure proper functioning.  
The schematic of the pressure control equipment can  
be seen on the attached diagram.

LOGGING PROGRAM:

DIL/SFL: TD to 1460'.

CNL/FDC: TD to 4350'.

MICROLOG: TD to 4350'.

HIGH PRESSURE AND/OR H<sub>2</sub>S GAS: High pressure gas or gas containing detectable  
H<sub>2</sub>S are not anticipated while drilling  
this well.

DRILL STEM TESTS:

None anticipated at this time.

CORING:

None anticipated at this time.

ANTICIPATED STARTING DATE: May, 1985

# **SUPERIOR OIL**

August 16, 1984

Mr. Mat N. Millenbach  
Area Manager  
U. S. Department of Interior  
Bureau of Land Management  
Caller Service 4104  
Farmington, New Mexico 87499

Re: Surface Use Development Plan  
Proposed Well  
White Mesa Unit #35-24  
300' FSL, 1550' FWL  
Section 35, T41S, R24E SLM  
San Juan County, Utah

Gentlemen:

We submit the following Application with Plats for permission to drill the referenced well.

1. The existing roads are shown on the attached Plat No. 3. Direction to the location from Montezuma Creek, Utah are as follows:

From the San Juan River Bridge at Montezuma Creek go south on the black top 0.4 miles to the Red Mesa Highway. Go southeast 2.5 miles to a dirt road on the left. Proceed southwest on the gravel road 2.8 to the pipeyard, continue southeast approximately 2 miles to the location. (Refer to Plat No. 3).

2. An access road will be constructed approximately 1000' long. (Refer to Plat No. 3).
3. Location of existing wells within one mile (refer to Plat No. 5).
  - a. Water wells - none.
  - b. Abandoned wells - 4.
  - c. Temporarily abandoned wells - 8.
  - d. Disposal wells - none.
  - e. Drilling wells - none.
  - f. Producing wells - 16.
  - g. Shut-in wells - none.
  - h. Injection wells - none.

## **SUPERIOR OIL**

4. There is one existing producing facility owned and controlled by Superior Oil within a one-mile radius. A 3,300' flowline will be laid southeast from the proposed location to the facility. (Refer to Plat No. 4).
5. Location and type of water supply will be from Superior's McElmo Creek Unit fresh water supply wells near the San Juan River (SW 1/4 Sec. 17, T41S, R25E SLM). Water will be trucked to the location over existing roads and access road to be built.
6. Source of construction materials necessary to build the drilling pad will be obtained from the location. If gravel is needed to maintain existing road or to top off the drilling pad it will be trucked from a privately owned gravel pit 0.25 miles west of Montezuma Creek.
7. Methods of handling waste disposal is to collect it in an earthen pit 6' to 8' deep with steep sides and fenced with small mesh wire and located near the mud pit. The reserved mud pit will be located on the south side of the location. When drilling operations are complete the mud pits will be allowed to dry and then backfilled and leveled to the contour of the original landscape. The reserve pit will be fenced on three sides while drilling and on the fourth side as soon as the drilling rig moves out. OSHA approved chemical toilets will be provided and maintained. (Refer to Plat No. 6 & 7).
8. Ancillary facilities. No permanent campsites or airstrips will be constructed. Two small portable trailer houses for Superior's and contractors drilling Supervisory personnel will be on the location while drilling the well. (Refer to Plat No. 6).
9. Wellsite layout. The location and position of all drilling equipment is shown on the attached plat. There is also a plat attached showing the cross section diagram of the drill pad including all cuts and fills. Material from the location will be used for pad elevation. (Refer to Plats No. 6, 7, 8, & 9).
10. Plans for restoration of the surface. Upon completion of drilling operations the site and unused portion of the access road will be restored to the contour of the original landscape and seeded in accordance with the BIA requirements.
11. Surface land is owned by the Navajo Tribe and is used primarily for grazing. Vegetation is sparse desert type ground cover. There are no Indian habitations or artifacts in the immediate vicinity of the access road, flowline or drill site.

## **SUPERIOR OIL**

12. Superior's representatives:

Permitting - Wm. H. Edwards  
Construction - C. D. Likes  
Drilling - J. E. Gagneaux  
Production - D. C. Collins  
Mailing address - P. O. Drawer 'G', Cortez, Colorado 81321  
Telephone (24 hours) - 303-565-3733  
Dirt Contractor - Perry McDonald Construction  
P. O. Box 1750, Cortez, Colorado 81321  
Telephone - 303-565-3656  
Drilling Contractor - not determined at this time.

13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by the SUPERIOR OIL COMPANY and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Respectfully submitted,

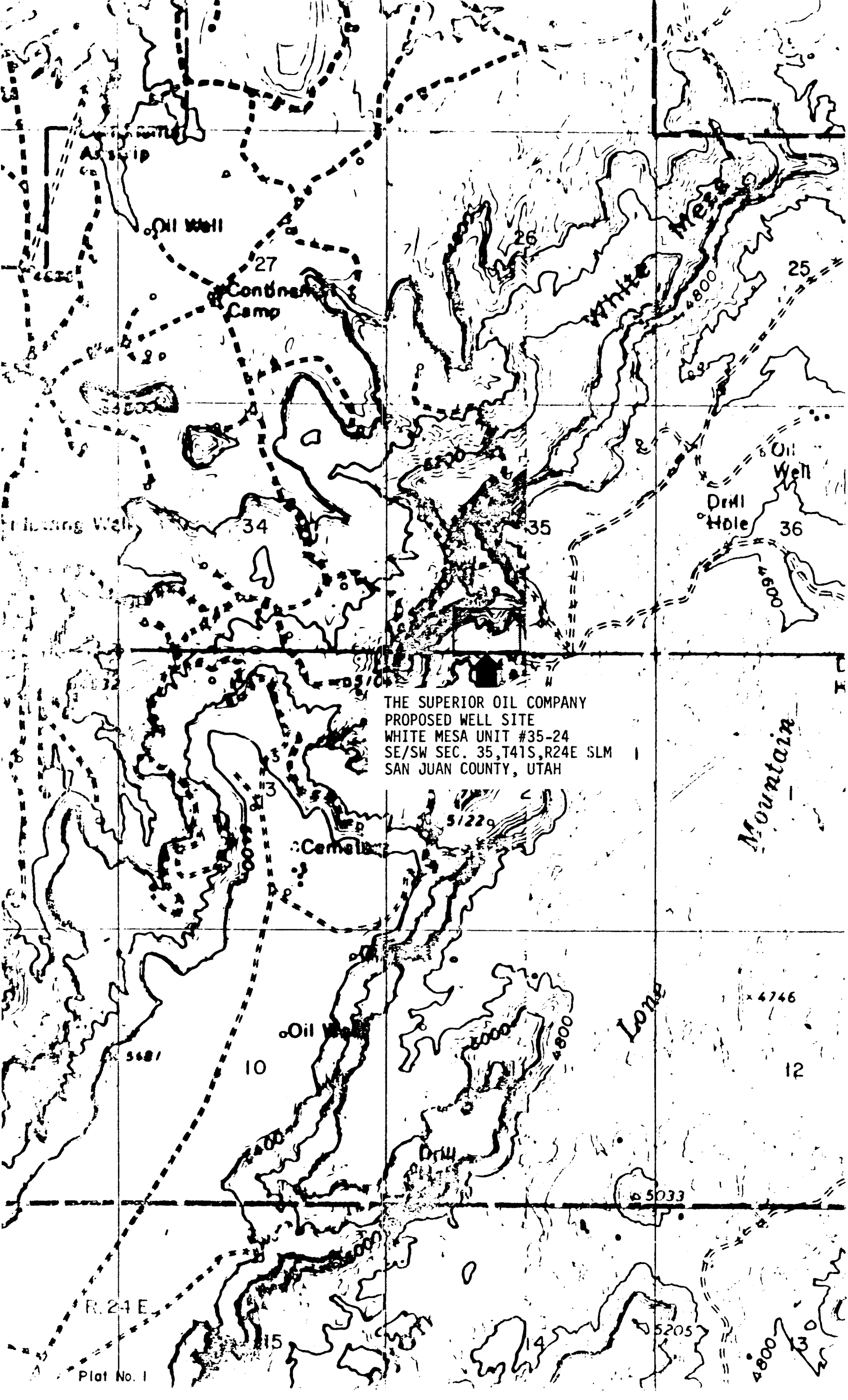
SUPERIOR OIL COMPANY



Wm. H. Edwards  
Special Projects Superintendent

WHE/lh





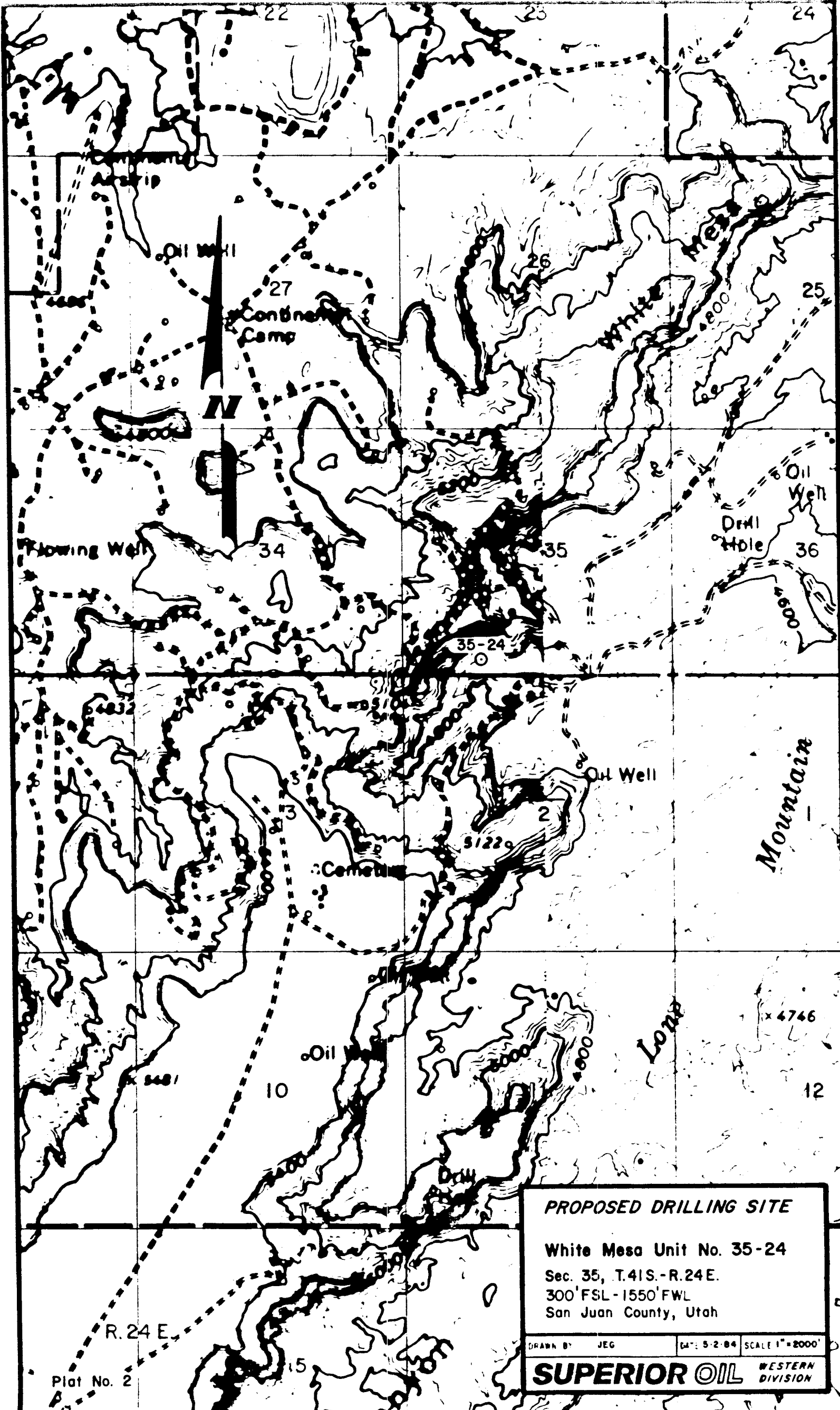
THE SUPERIOR OIL COMPANY  
PROPOSED WELL SITE  
WHITE MESA UNIT #35-24  
SE/SW SEC. 35, T41S, R24E SLM  
SAN JUAN COUNTY, UTAH

Mountain

Lone

R. 24 E

Plot No. 1

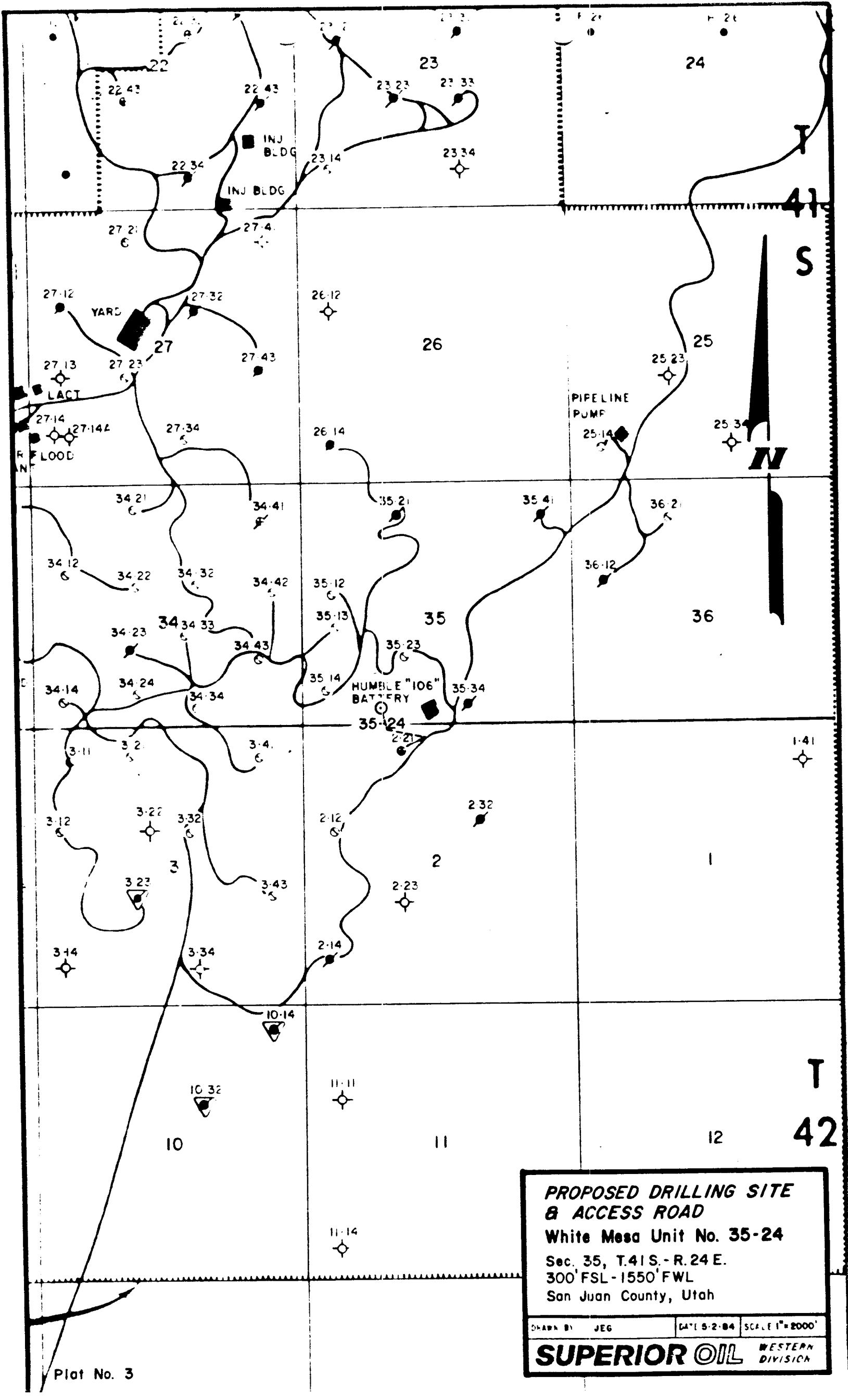


**PROPOSED DRILLING SITE**

White Mesa Unit No. 35-24  
Sec. 35, T.41S.-R.24E.  
300' FSL - 1550' FWL  
San Juan County, Utah

DRAWN BY JEG DATE 5-2-84 SCALE 1" = 2000'

**SUPERIOR OIL** WESTERN DIVISION



**PROPOSED DRILLING SITE  
& ACCESS ROAD**

**White Mesa Unit No. 35-24**

**Sec. 35, T.41S. - R.24E.**

**300' FSL - 1550' FWL**

**San Juan County, Utah**

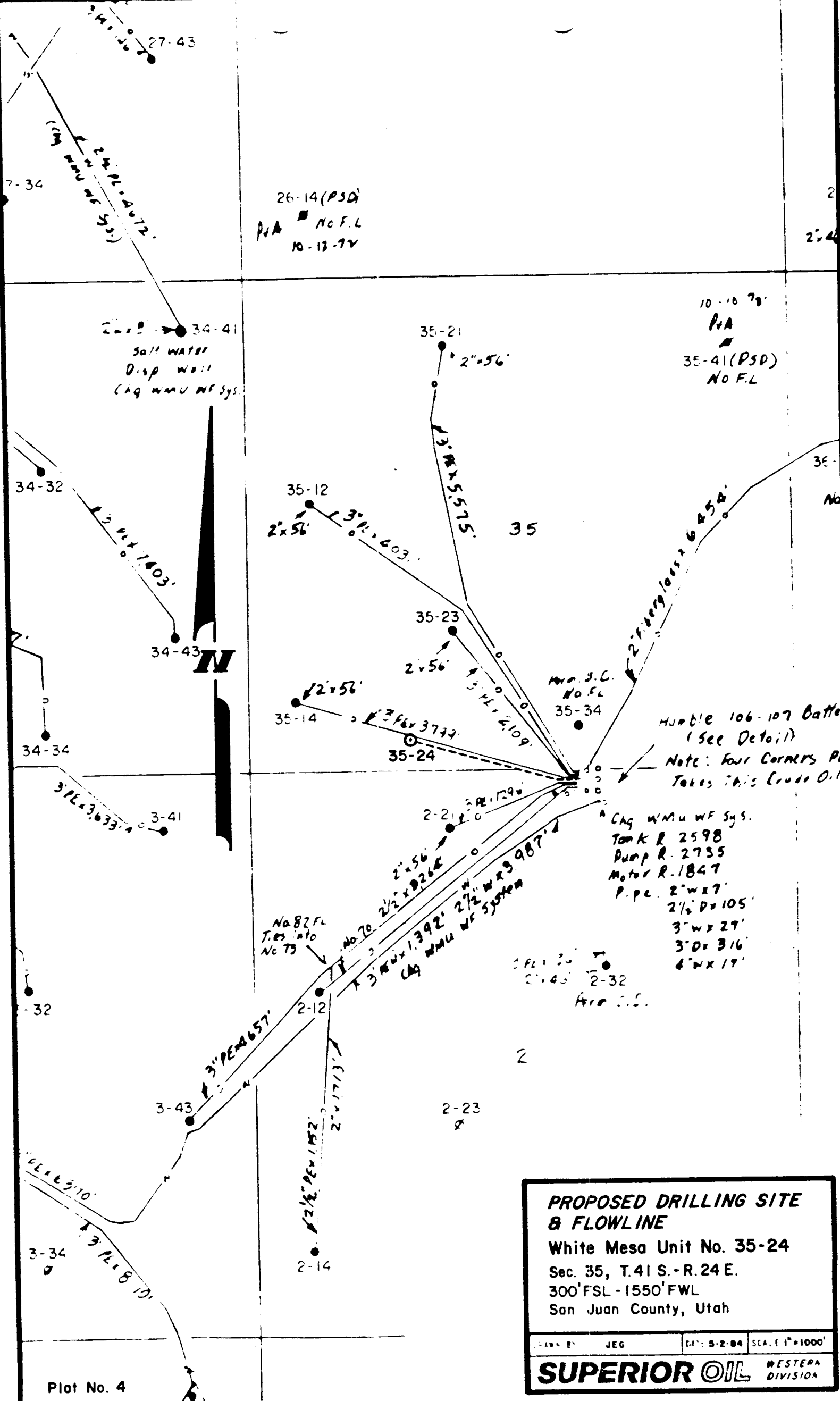
DRAWN BY JEG

DATE 5-2-84

SCALE 1"=2000'

**SUPERIOR OIL**

**WESTERN  
DIVISION**



26-14 (PSD)  
P.A. No F.L.  
10-13-72

10-10-78  
P.A.  
35-41 (PSD)  
No F.L.

Humble 106-107 Battery  
(See Detail)  
Note: Four Corners PL  
Takes This Crude Oil

CAG W.M.U. WF Sys.  
Tank R. 2598  
Pump R. 2735  
Motor R. 1847  
P.P.C. 2" x 7'  
2 1/2" x 105'  
3" x 29'  
3" x 316'  
4" x 19'

No 82 FL  
Ties into  
No 79

3" x 316'  
2" x 45'  
2-32  
Area S.S.

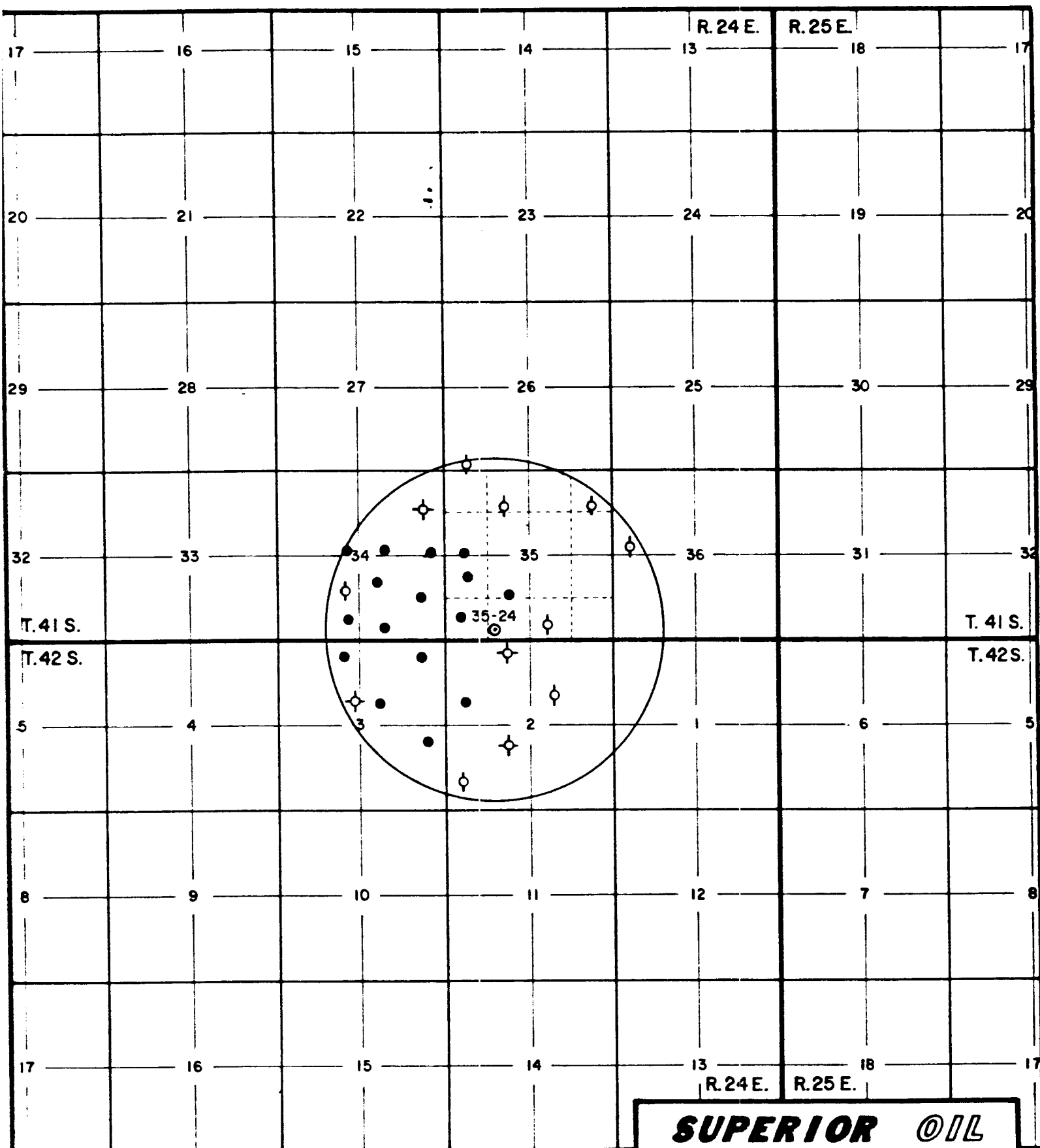
**PROPOSED DRILLING SITE  
& FLOWLINE**

White Mesa Unit No. 35-24  
Sec. 35, T.41 S.-R.24 E.  
300' FSL - 1550' FWL  
San Juan County, Utah

Drawn by JEG	Date: 5-2-84	Scale: 1"=1000'
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**SUPERIOR OIL**

WESTERN DIVISION

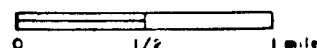


- Proposed Well
- Producing Well
- ⊗ Gas Well
- ⊕ Water Injection Well
- ⊖ Temporarily Abandoned
- ⊙ Plugged and Abandoned

Plot No. 5

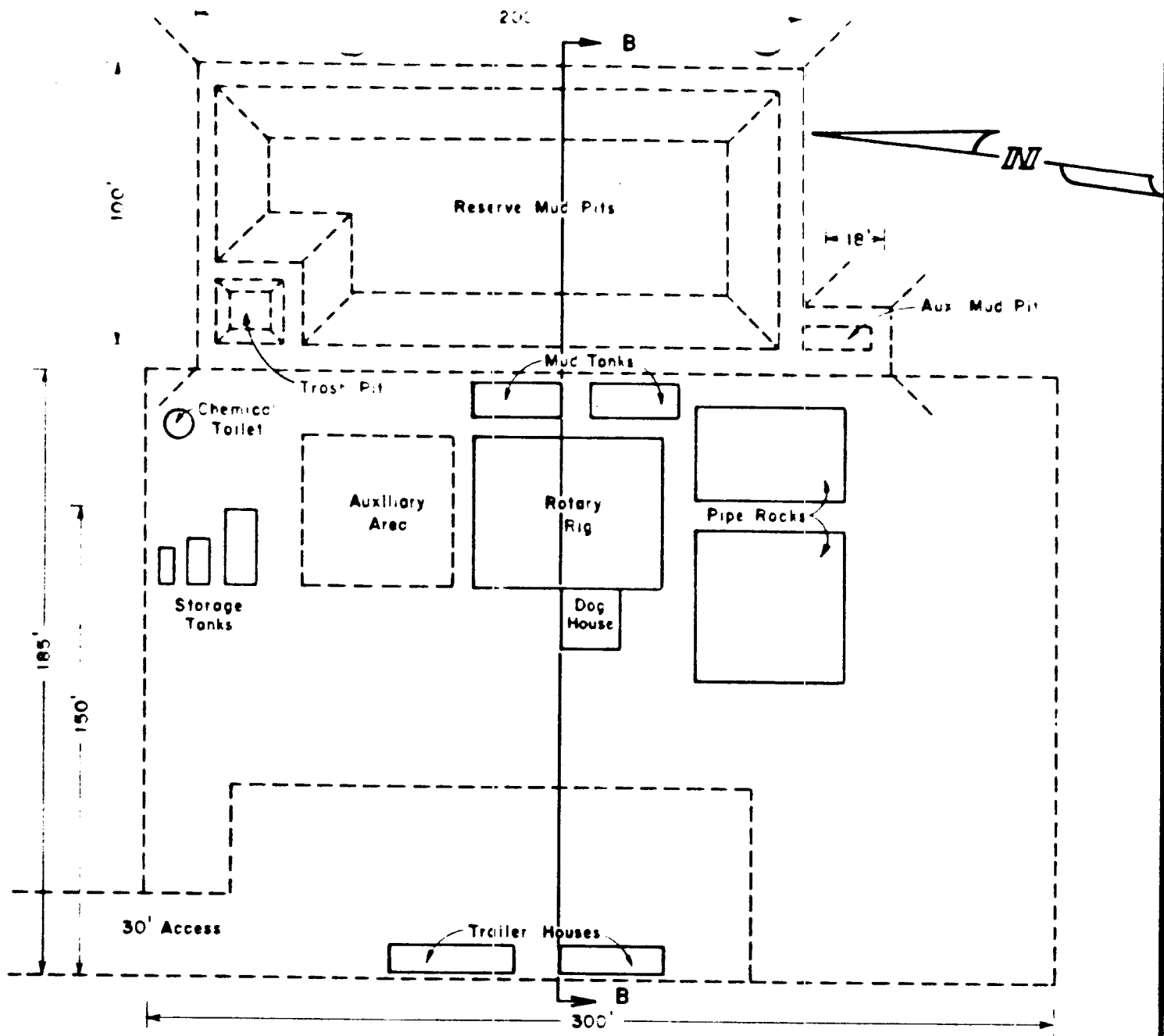
**SUPERIOR OIL**

**EXISTING WELLS  
SURROUNDING  
PROPOSED WELL**



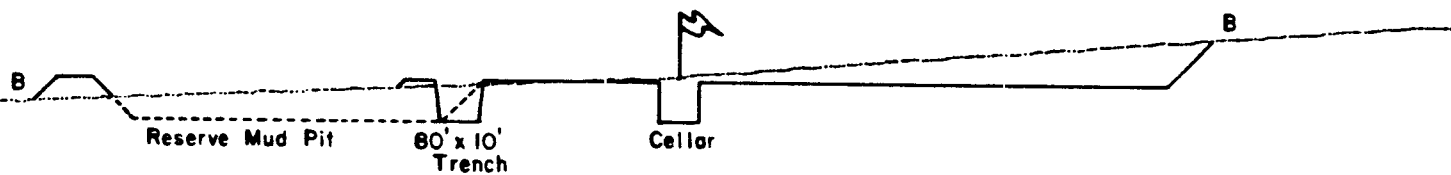
By JEG

Date 5/2/84



*The Drilling Pad will be graded and compacted, and composed of native materials.*

**PROPOSED WELL SITE**  
**W.M.U. 35-24**  
**Original Elev. 4718.7'**



*Original Contour*  
*Reference Point*  
*Graded Proposal*

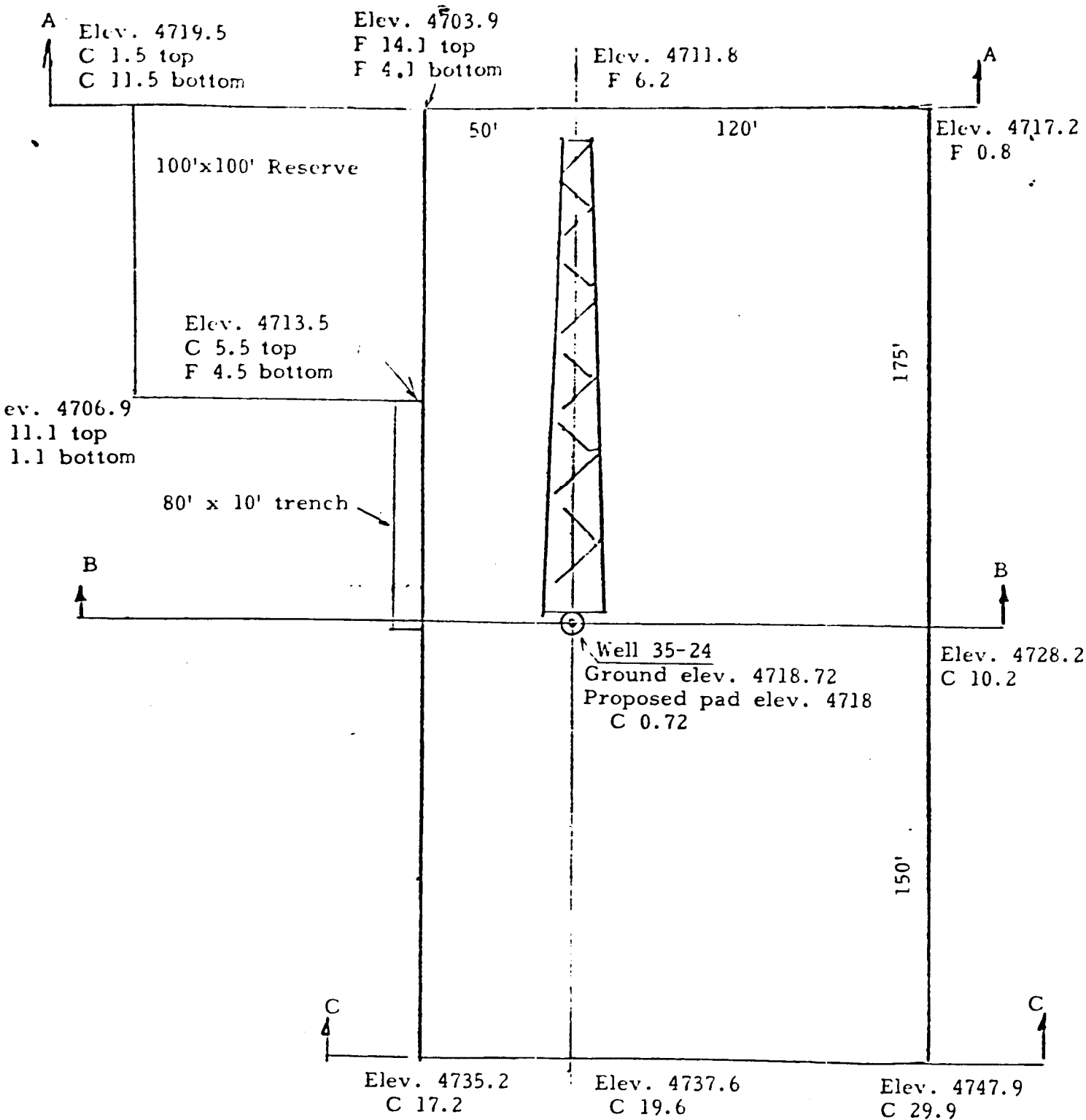


**THE SUPERIOR OIL CO.**  
 CORTEZ, CASPER DISTRICT  
 ENGINEERING DEPARTMENT

**RIG LAYOUT & DRILL  
 PAD CROSS SECTION**

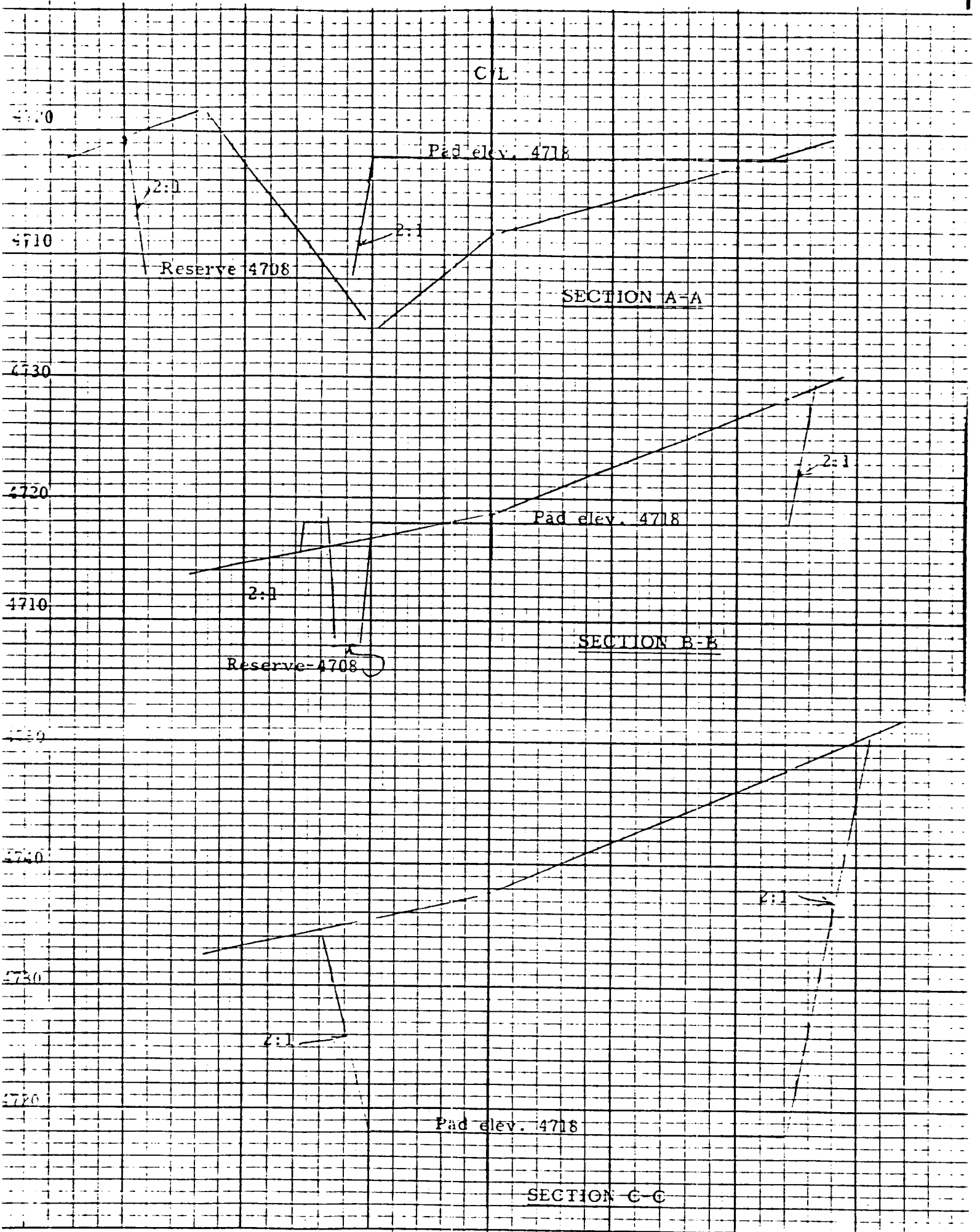
White Mesa Unit No. 35-24  
 Sec. 35, T.41S. - R.24E.  
 San Juan County, Utah

DATE: 5-2-64  
 REV: 5-2-64



THOMAS Engineering Inc.

2E N. Linden  
 Cortez, Colorado  
 955-4495

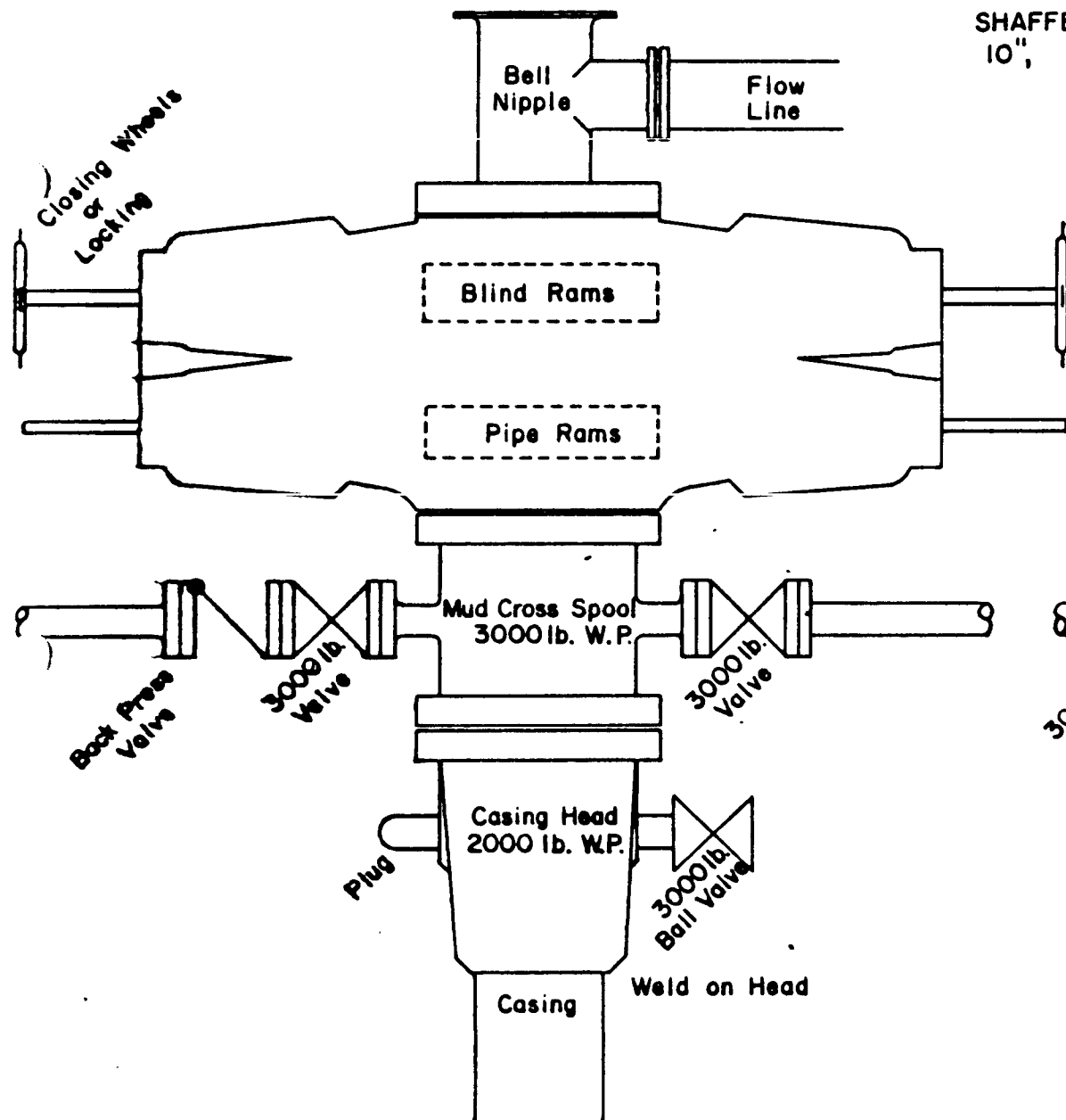


THOMAS Engineering Inc.

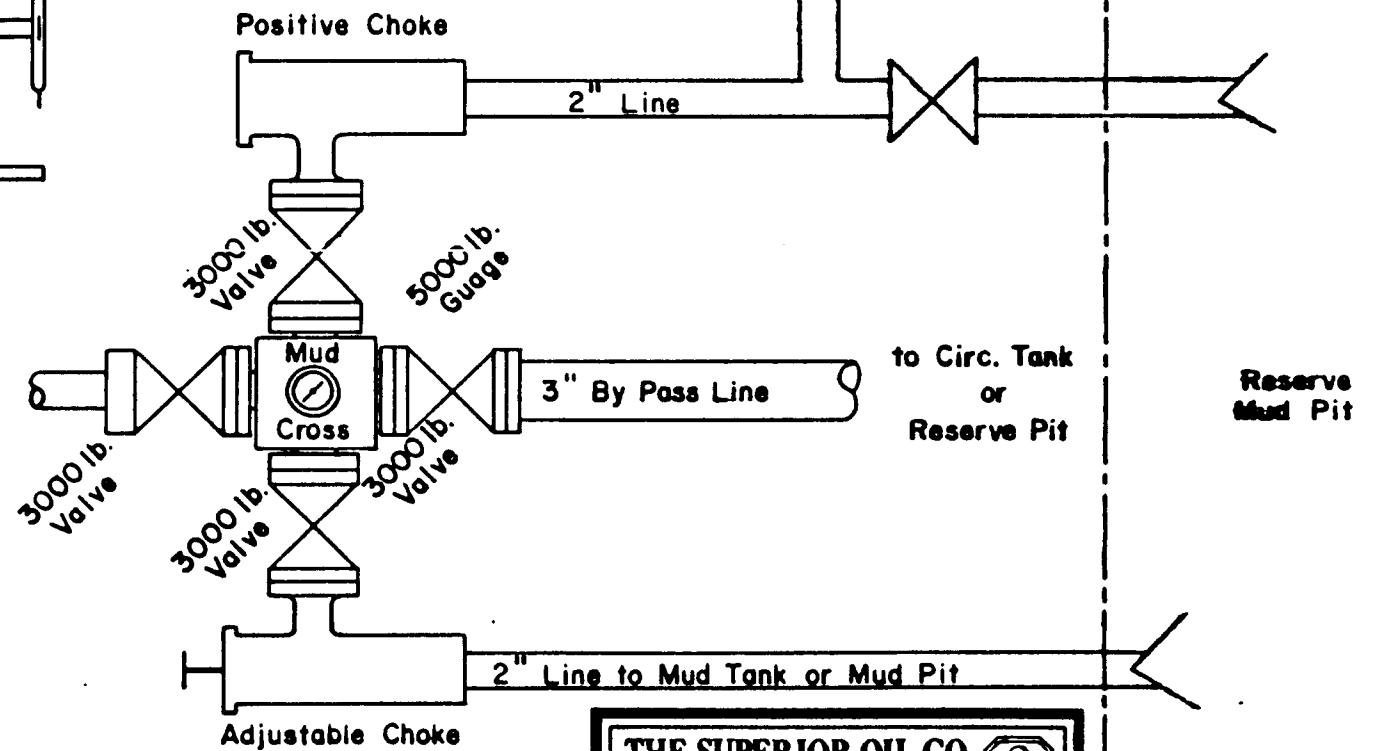
Horizontal scale: 1" = 50'  
Vertical scale: 1" = 10'

25 N. Linden  
Cortez, Colorado  
565-4496





SHAFFER DOUBLE GATE BLOW OUT PREVENTER  
10", 3000 lb. W.P., 6000 lb. Test, Type E



**THE SUPERIOR OIL CO.**  
CORTIZ - CASPER DISTRICT  
ENGINEERING DEPARTMENT

**SCHEMATIC DIAGRAM  
OF PRESSURE CONTROL  
EQUIPMENT**

BY JES      DATE 6/25/79  
SCALE NONE      REVISED

OPERATOR Superior Oil Co DATE 1-31-85  
WELL NAME White Mesa Unit #35-24  
SEC SESW 35 T 41S R 24E COUNTY San Juan

43-037-31138  
API NUMBER

Indian  
TYPE OF LEASE

CHECK OFF:



PLAT



BOND



NEAREST WELL



LEASE



FIELD



POTASH OR  
OIL SHALE

PROCESSING COMMENTS:

Unit Well - OK on 1984 POD ✓  
Water OK - 84-09-9

APPROVAL LETTER:

SPACING:



A-3

White Mesa  
UNIT



c-3-a

CAUSE NO. & DATE



c-3-b



c-3-c

STIPULATIONS:



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 1, 1985

Superior Oil Company  
P. O. Drawer "G"  
Cortez, Colorado 81321

Gentlemen:

Re: Well No. White Mesa Unit #35-24 - SE SW Sec. 35, T. 41S, R. 24E  
300' FSL, 1550' FWL - San Juan County

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

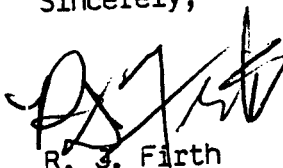
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Superior Oil Company  
Well No. White Mesa Unit #35-24  
February 1, 1985  
Page 2

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31138.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R. S. Firth', written over a horizontal line.

R. S. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
Bureau of Indian Affairs

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on reverse side)

LEASE DESIGNATION AND SERIAL NO.

14-20-603-258

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

WHITE MESA

8. FARM OR LEASE NAME

WHITE MESA

9. WELL NO.

35-24

10. FIELD AND POOL, OR WILDCAT

GREATER ANETH

11. SEC., T., R., OR BLK. AND SURVEY OR AREA

Sec. 35, T41S, R24E, S

12. COUNTY OR PARISH

SAN JUAN

13. STATE

UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY, through its Agent, MOBIL OIL CORP.

3. ADDRESS OF OPERATOR

P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface

300' FSL, 1550' FWL SESW

14. PERMIT NO.

43-037-31138

15. ELEVATIONS (Show whether SF, FT, OR, etc.)

4718.7 ungraded

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANE

Cancel APD

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Request approval of APD be rescinded without prejudice.

RECEIVED

JAN 14 1986

DIVISION OF OIL  
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

*C. J. Benally*  
C. J. Benally

TITLE

Sr. Regulatory Engineer

DATE

1/8/86

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

March 28, 1986

Superior Oil Company  
P.O. Drawer "G"  
Cortez, Colorado 81321

Gentlemen:

RE: Well No. White Mesa Unit 35-24, Sec.35, T.41S, R.24E,  
San Juan County, Utah, API NO. 43-037-31138

Per your request, approval to drill the subject well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

*John R. Baza*  
John R. Baza  
Petroleum Engineer

sb  
cc: BLM - Farmington  
D. R. Nielson  
R. J. Firth  
Well file  
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